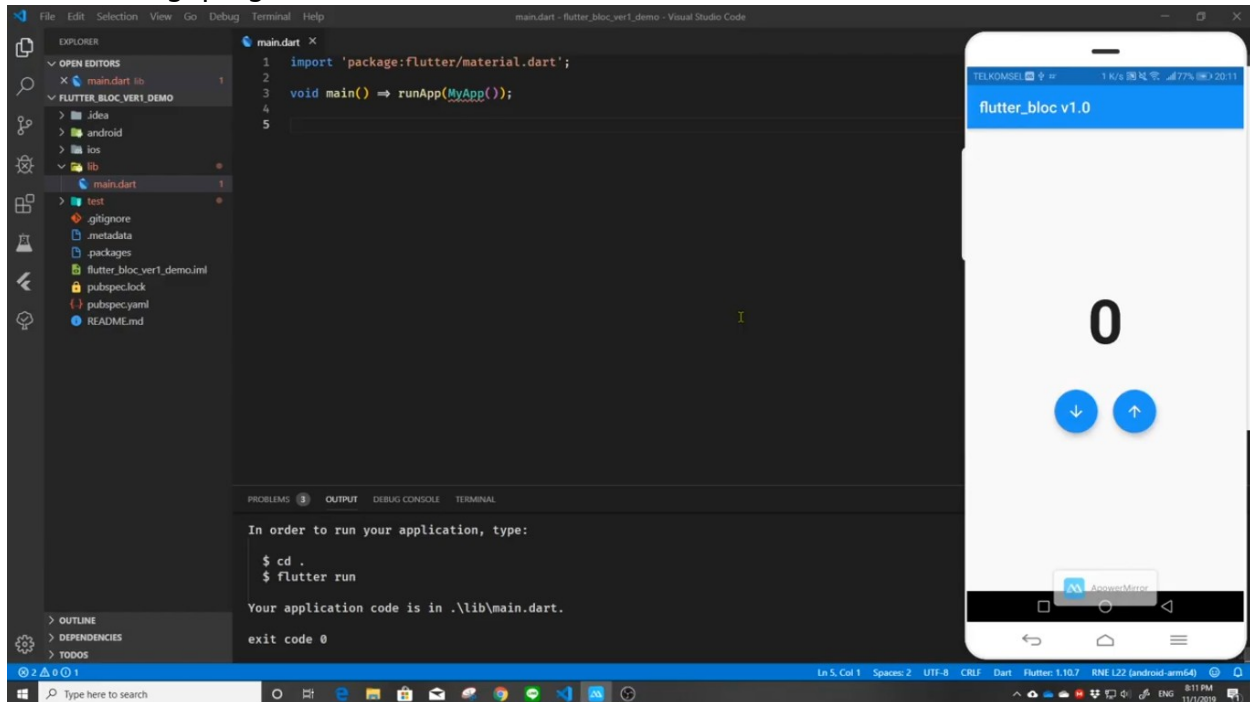
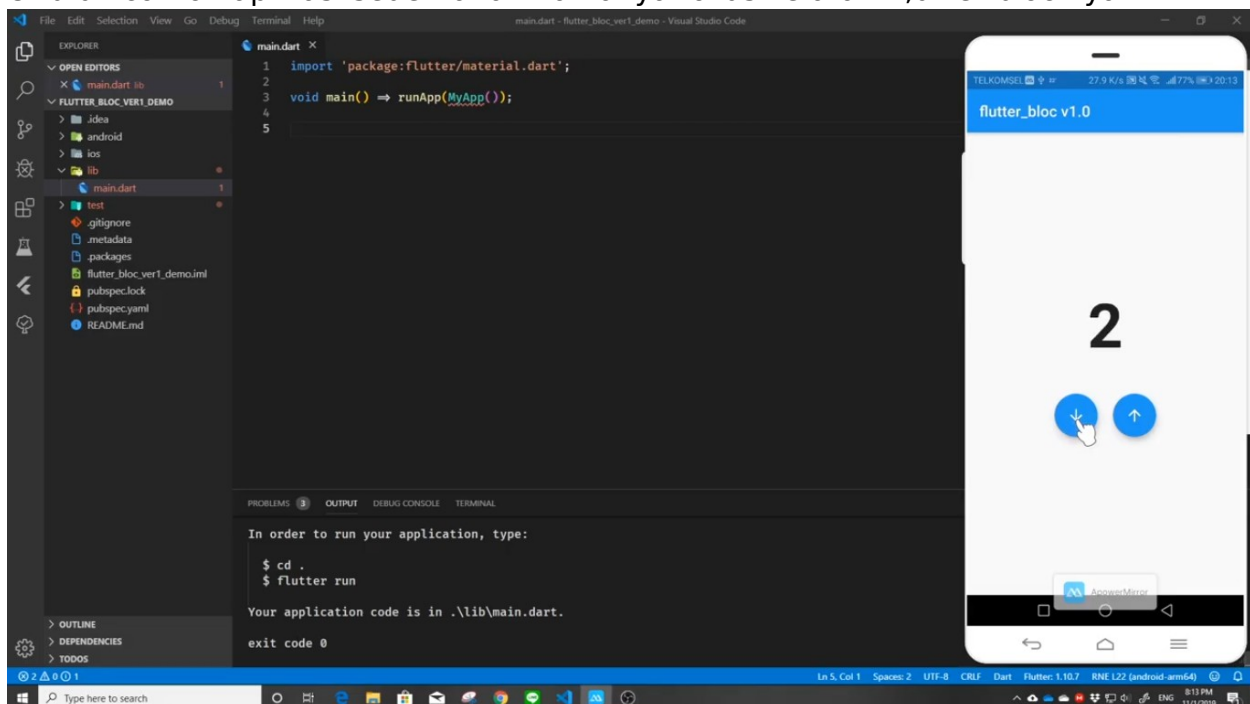


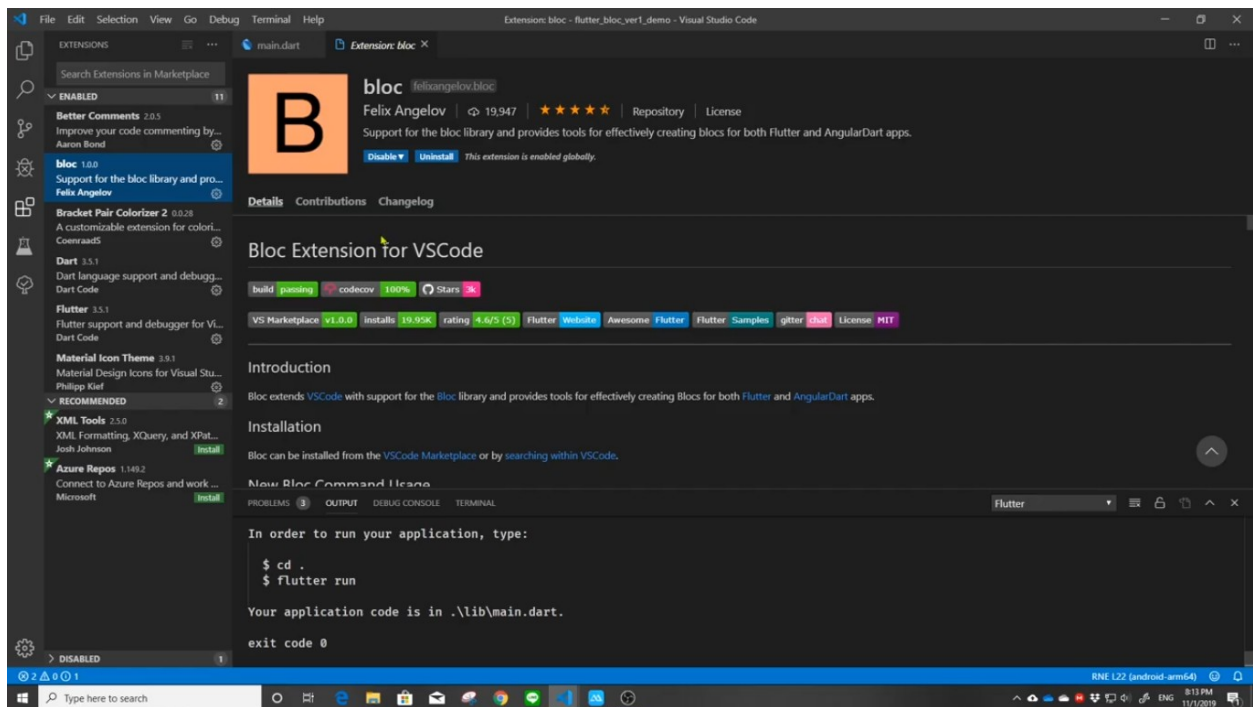
Perubahan flutter bloc versi 1
Ada beberapa perubahan yg harus tau
Dan ada lagi plugin vs code



Untuk contoh aplikasi sederhana kita hanya fokus ke arah flutter bloc nya



Ini untuk meningkatkan terus
Pertama instal plugin namanya bloc

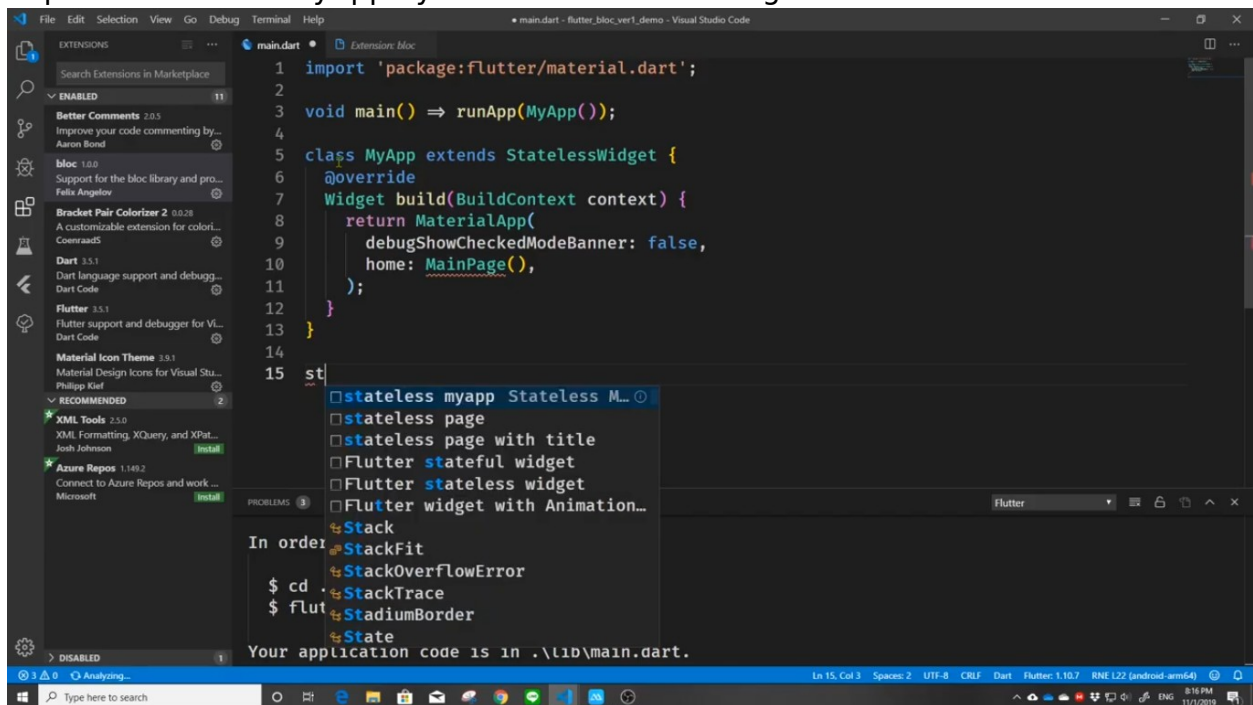


Plugin ini memjbuat flutter bloc instal

Nanti tunjukan cara penggunaan nya

Kalau usdah ke main dart lagi

Seperti biasa buat myApp nya lalu home ke MainPage

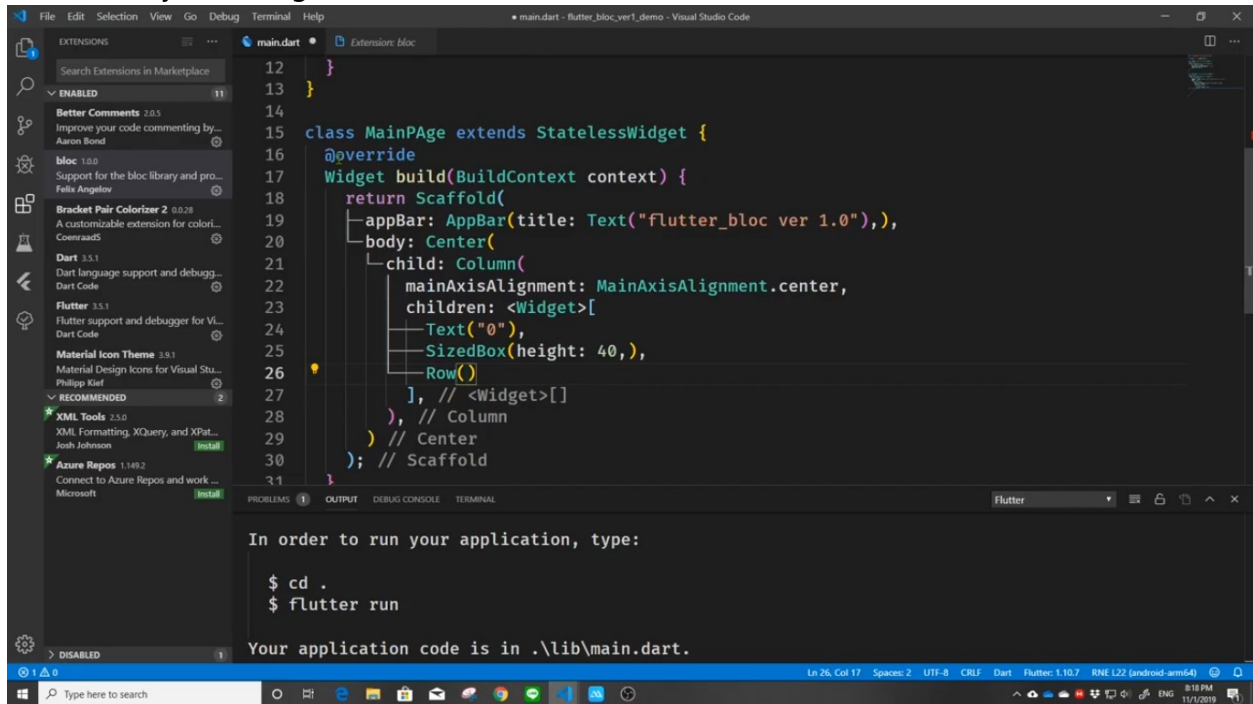


Buat MainPage

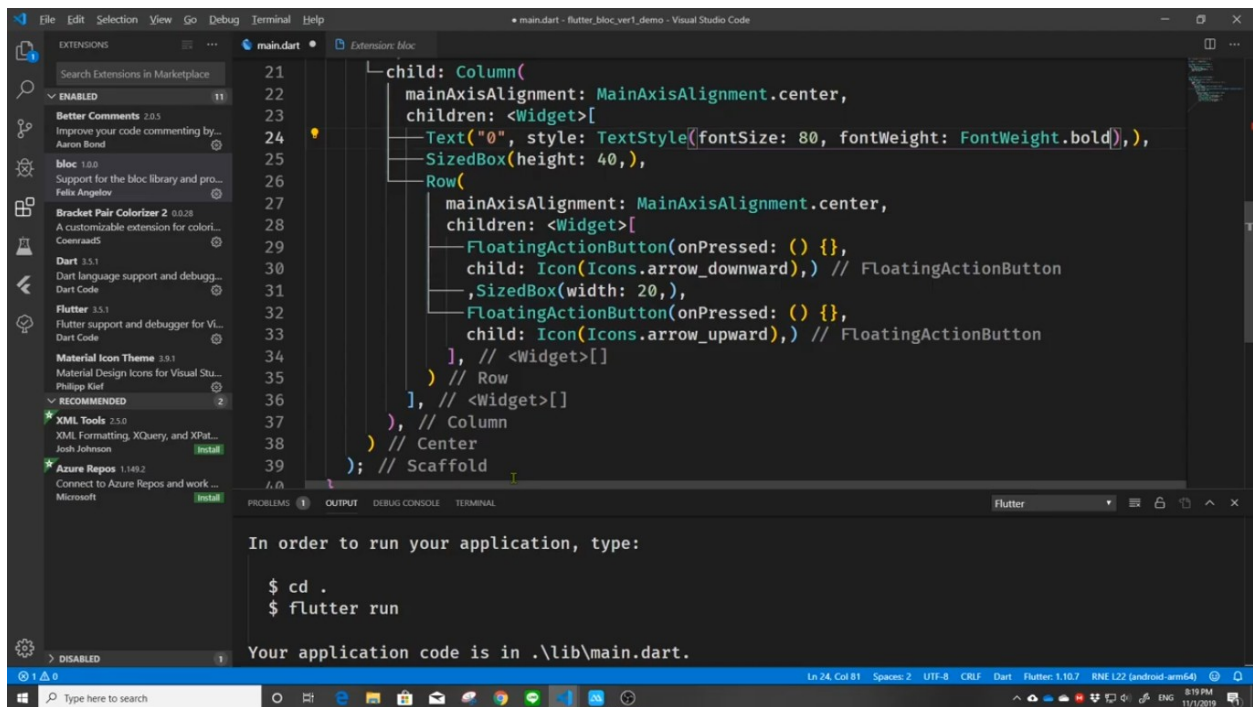
Kasih judul

Dibody buat center

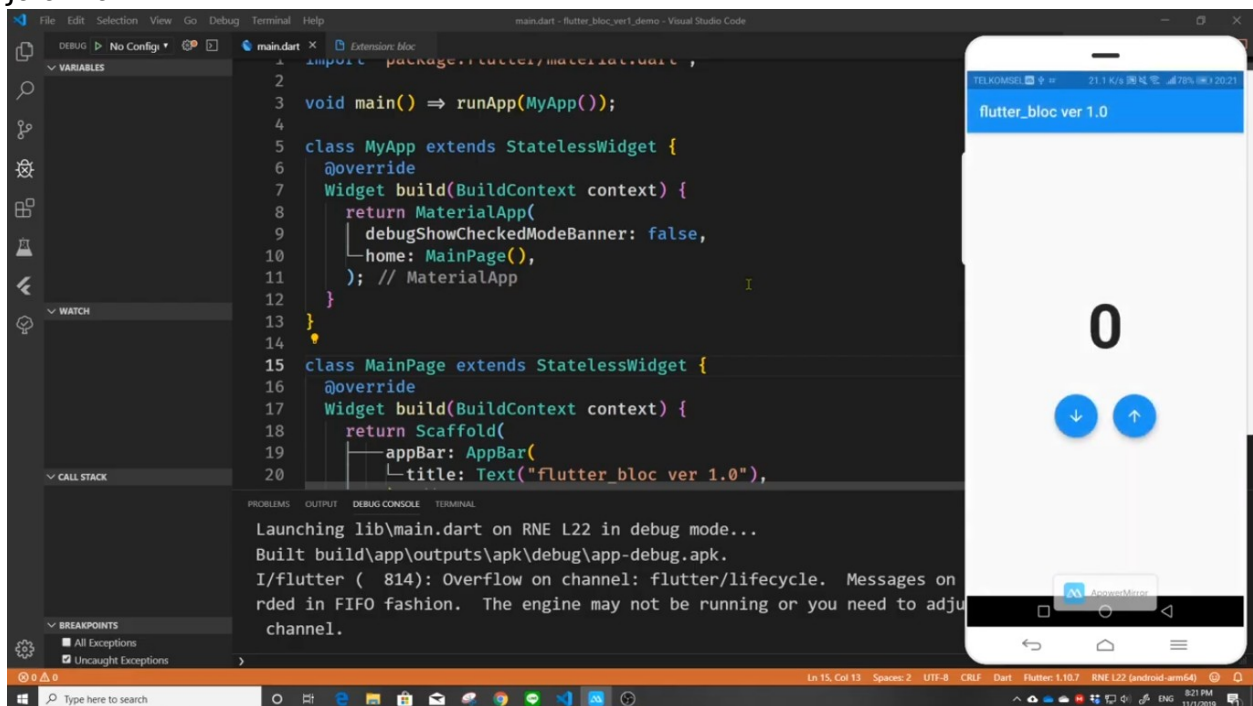
Child nya column mainaxis nya center
Children nya text yaitu angkanya 0 dulu
Lalu kasih jarak height 40



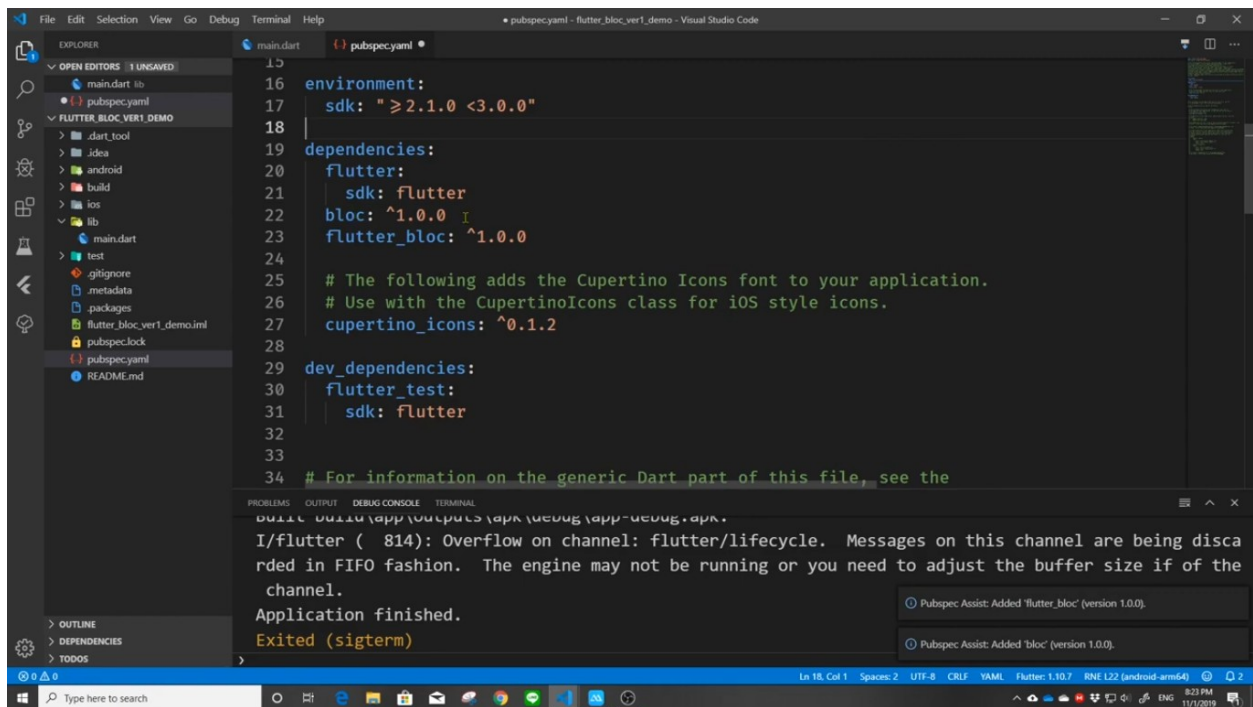
Lalu dibawah ada row buat 2 buah button
mainAxisnya center
floatingActionButton onprased kosongi child pasang icon tanda panah bawah
lalu pasang sizedbox jarak widht 20
lalu floating button
kasih style pada angka nya



Lalu ke atas
Jalankan



Maka tampilan seperti ini sekarang stop dulu
Sekarang pakai flutter bloc nya
Ke pubspec yamI
Ctrl +p
Flutter_bloc
Dan bloc



The screenshot shows the Visual Studio Code interface with the `pubspec.yaml` file open. The file contains the following content:

```
15
16 environment:
17   sdk: "≥2.1.0 <3.0.0"
18
19 dependencies:
20   flutter:
21     sdk: flutter
22   bloc: ^1.0.0
23   flutter_bloc: ^1.0.0
24
25   # The following adds the Cupertino Icons font to your application.
26   # Use with the CupertinoIcons class for iOS style icons.
27   cupertino_icons: ^0.1.2
28
29 dev_dependencies:
30   flutter_test:
31     sdk: flutter
32
33
34 # For information on the generic Dart part of this file, see the
```

The terminal output shows the following messages:

```
Building flutter app (outputs apk) (debug) app-debug.apk.
I/flutter ( 814): Overflow on channel: flutter/lifecycle. Messages on this channel are being discarded in FIFO fashion. The engine may not be running or you need to adjust the buffer size if of the channel.
Application finished.
Exited (sigterm)
```

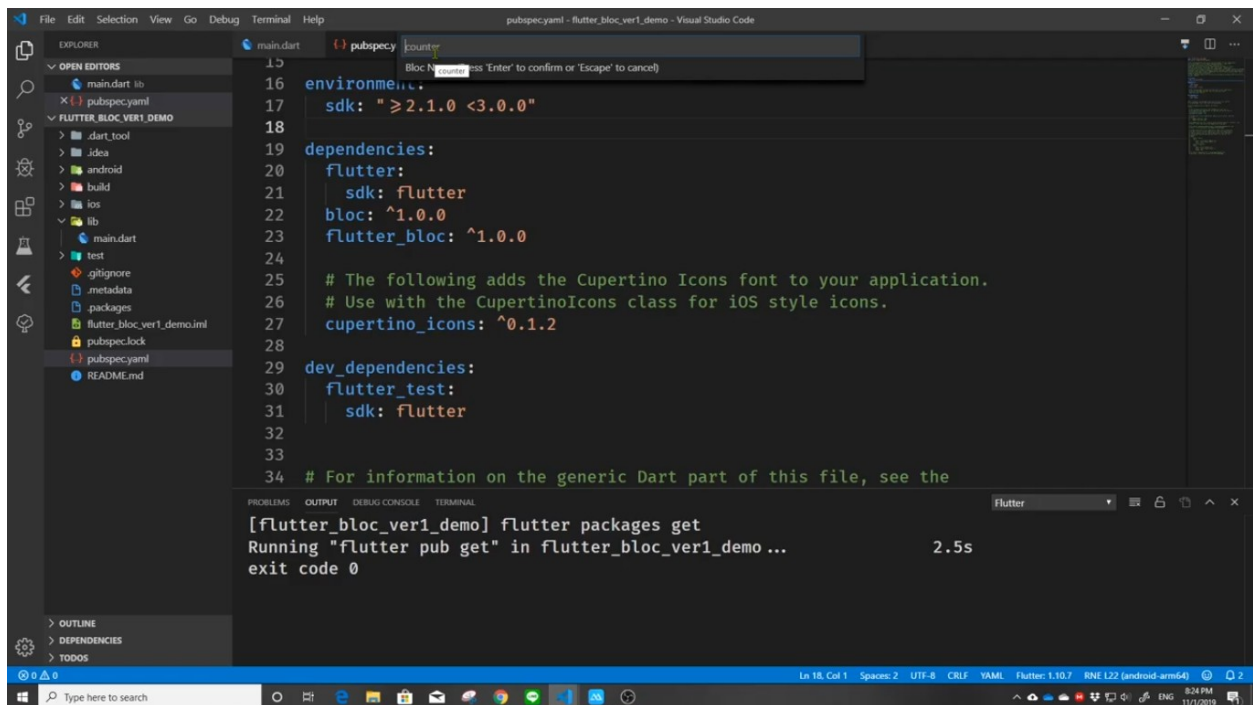
Sini versi 1

Sekarang kita gunakan

Akan gunakan fitur plugin bloc kita

Klik kanan terus

New bloc



The screenshot shows the Visual Studio Code interface with the `pubspec.yaml` file open. The file contains the following content:

```
15
16 environment:
17   sdk: "≥2.1.0 <3.0.0"
18
19 dependencies:
20   flutter:
21     sdk: flutter
22   bloc: ^1.0.0
23   flutter_bloc: ^1.0.0
24
25   # The following adds the Cupertino Icons font to your application.
26   # Use with the CupertinoIcons class for iOS style icons.
27   cupertino_icons: ^0.1.2
28
29 dev_dependencies:
30   flutter_test:
31     sdk: flutter
32
33
34 # For information on the generic Dart part of this file, see the
```

The terminal output shows the following messages:

```
[flutter_bloc_ver1_demo] flutter packages get
Running "flutter pub get" in flutter_bloc_ver1_demo ... 2.5s
exit code 0
```

Kasih nama counter

Untuk saat ini kita tidak pakai equatable amak no

Kalau sudah maka dia otomatis akan generate kode bloc didalam ada 4 buah file

The screenshot shows the Visual Studio Code interface with the `pubspec.yaml` file open. The file contains the following content:

```
15
16 environment:
17   sdk: "≥2.1.0 <3.0.0"
18
19 dependencies:
20   flutter:
21     sdk: flutter
22   bloc: ^1.0.0
23   flutter_bloc: ^1.0.0
24
25 # The following adds the Cupertino Icons font to your application.
26 # Use with the CupertinoIcons class for iOS style icons.
27 cupertino_icons: ^0.1.2
28
29 dev_dependencies:
30   flutter_test:
31     sdk: flutter
32
33
34 # For information on the generic Dart part of this file, see the
```

The terminal at the bottom shows the output of the `flutter packages get` command:

```
[flutter_bloc_ver1_demo] flutter packages get
Running "flutter pub get" in flutter_bloc_ver1_demo... 2.5s
exit code 0
```

Yg pertama event

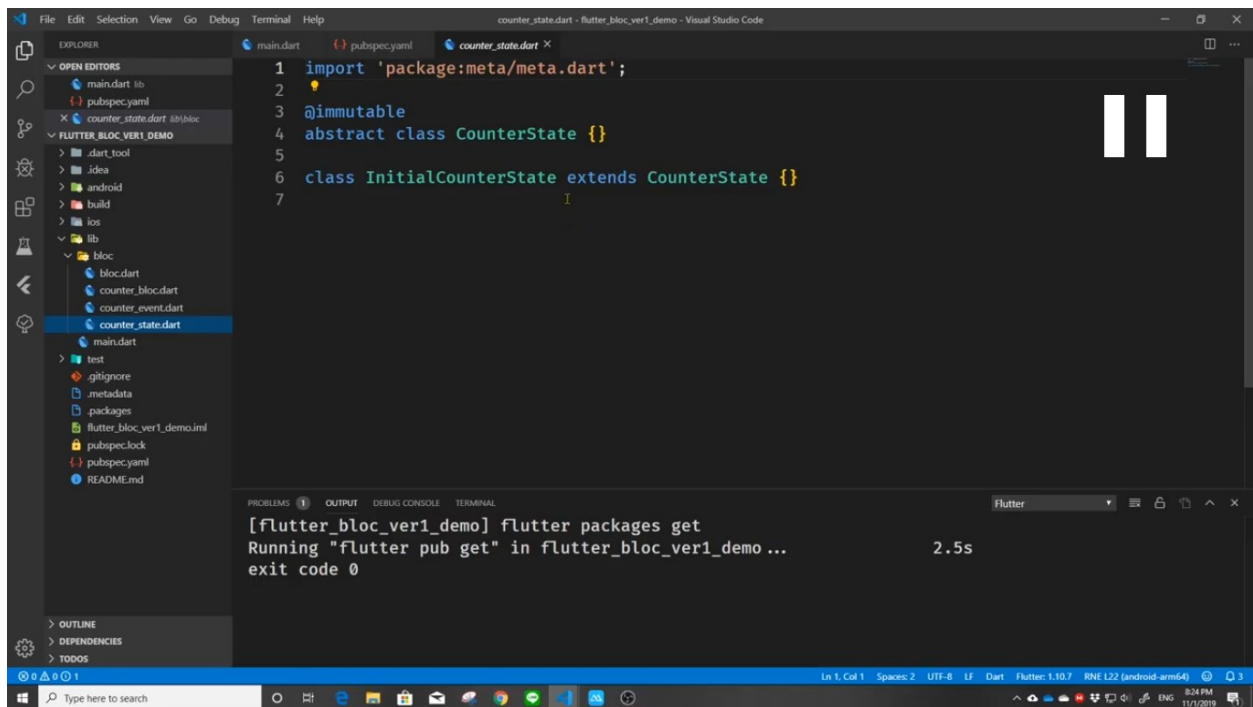
The screenshot shows the Visual Studio Code interface with the `counter_event.dart` file open. The file contains the following content:

```
1 import 'package:meta/meta.dart';
2
3 @immutable
4 abstract class CounterEvent {}
5
```

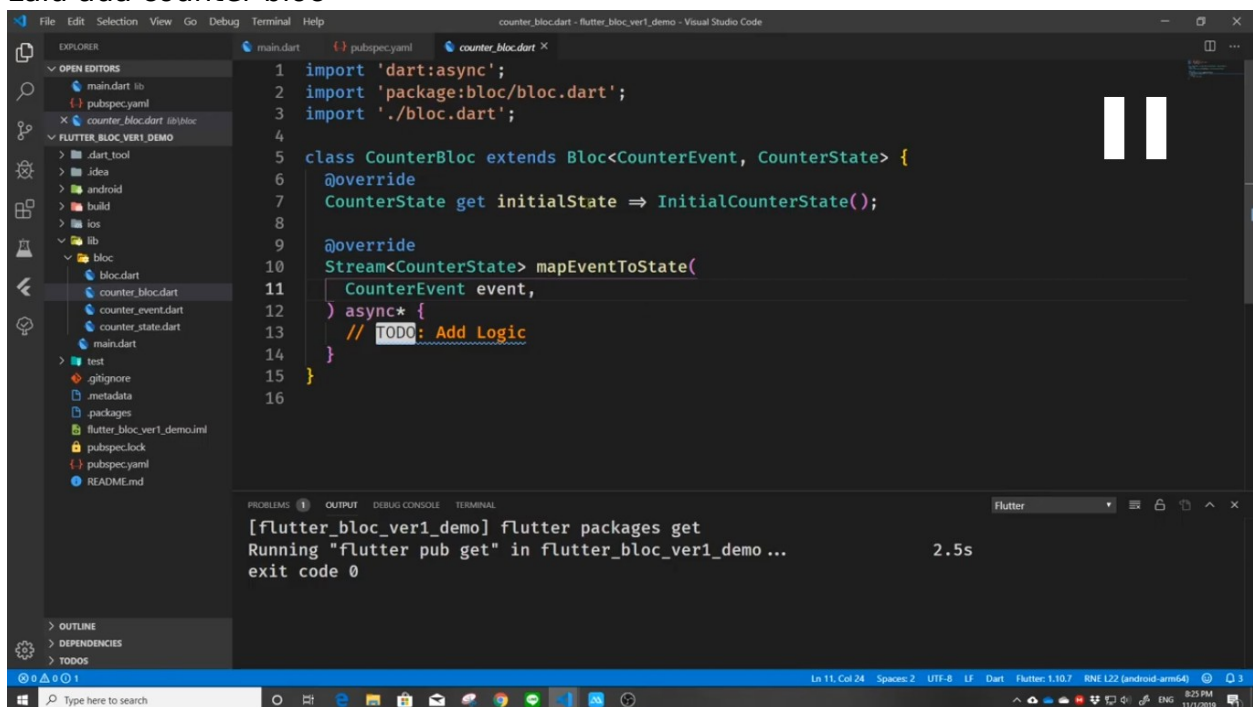
The terminal at the bottom shows the output of the `flutter packages get` command:

```
[flutter_bloc_ver1_demo] flutter packages get
Running "flutter pub get" in flutter_bloc_ver1_demo... 2.5s
exit code 0
```

Yg akan masuk ke counter bloc kita
Dan ada satte yg akan dimasukan ke bloc kita



Lalu ada counter bloc



Ini adalah clas counter bloc kita

Lalu ada bloc dart

```
1 export 'counter_bloc.dart';
2 export 'counter_event.dart';
3 export 'counter_state.dart';
4
```

```
[Flutter_bloc_ver1_demo] flutter packages get
Running "flutter pub get" in flutter_bloc_ver1_demo... 2.5s
exit code 0
```

Ini mengabung ketiga buahh file tadi kalau kita import tidak import ketiga file
Cukup import bloc dart saja maka bisa mengakses ketiga ini
Pertama masuk conter event kita buat event
Dalam counter bloc kita punya 2 buah event increment dan decrement
Jadi disini kita buat class Increment extedns dari counterEvent
Dan buat decrement

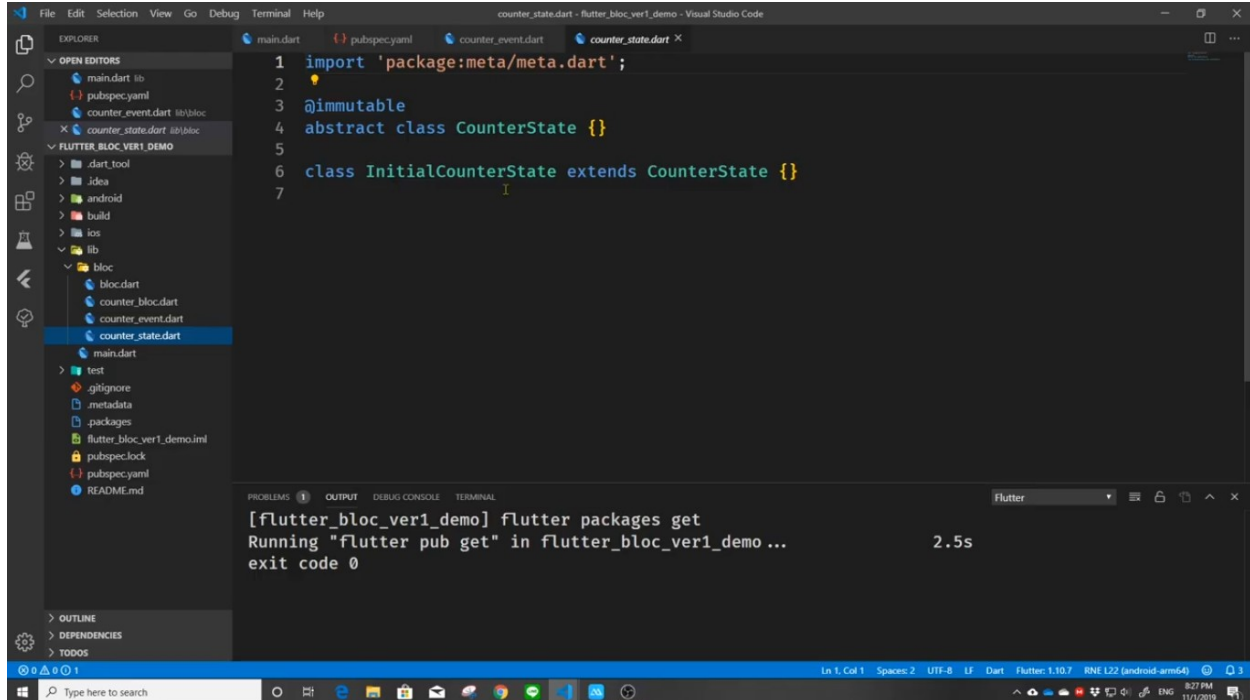
```
1 import 'package:meta/meta.dart';
2
3 @immutable
4 abstract class CounterEvent {}
5
6 class Increment extends CounterEvent {}
7 class Decrement extends CounterEvent {}
8
```

```
[Flutter_bloc_ver1_demo] flutter packages get
Running "flutter pub get" in flutter_bloc_ver1_demo... 2.5s
exit code 0
```

Sudah selai hanya begini saja
Sekarang kita ke counter state sama kita buat dgn counter event

Kita buat class dari turunan counter state

Disini sudah buat otomatis dia initialState ini nilai awal dari counter bloc kita



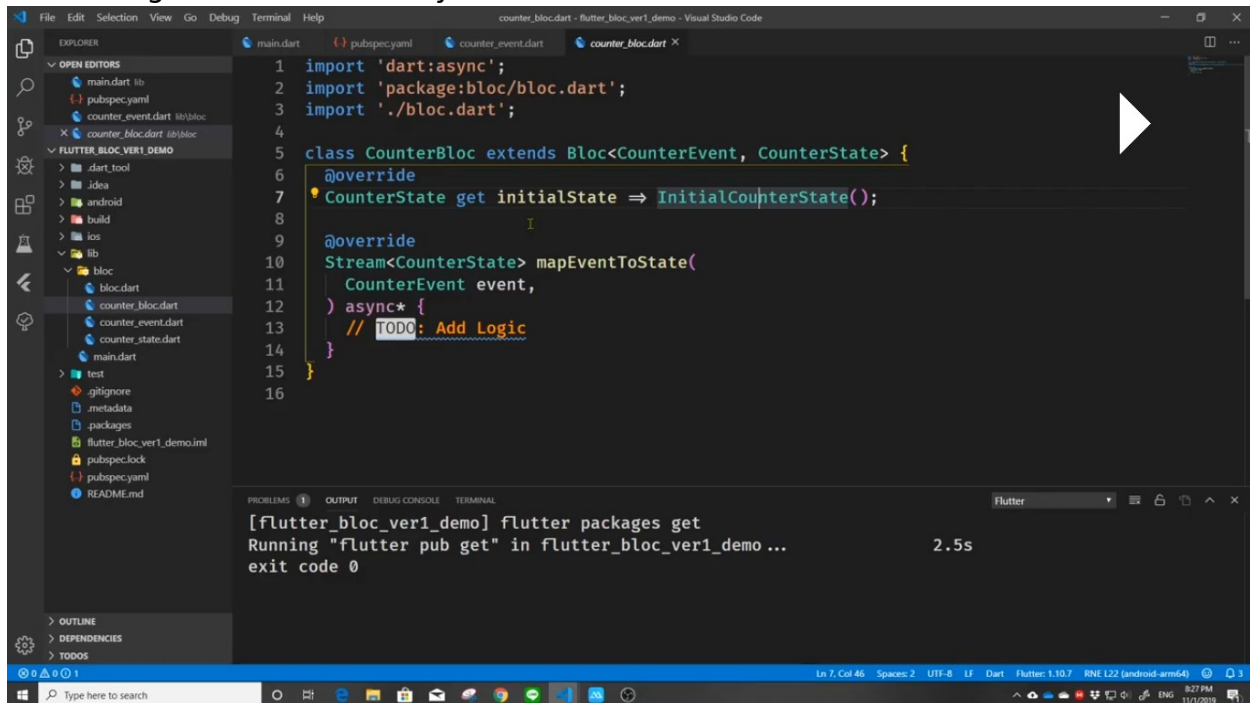
```
1 import 'package:meta/meta.dart';
2
3 @immutable
4 abstract class CounterState {}
5
6 class InitialCounterState extends CounterState {}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

[flutter_bloc_ver1_demo] flutter packages get
Running "flutter pub get" in flutter_bloc_ver1_demo ... 2.5s
exit code 0

Kita lihat di counter bloc

Disini initialState adalah InitialCounterState karena state kita punya hanya satu buah integer dan nilai awal nya null



```
1 import 'dart:async';
2 import 'package:bloc/bloc.dart';
3 import './bloc.dart';
4
5 class CounterBloc extends Bloc<CounterEvent, CounterState> {
6   @override
7   CounterState get initialState => InitialCounterState();
8
9   @override
10  Stream<CounterState> mapEventToState(
11    CounterEvent event,
12  ) async* {
13    // TODO: Add Logic
14  }
15 }
16
```

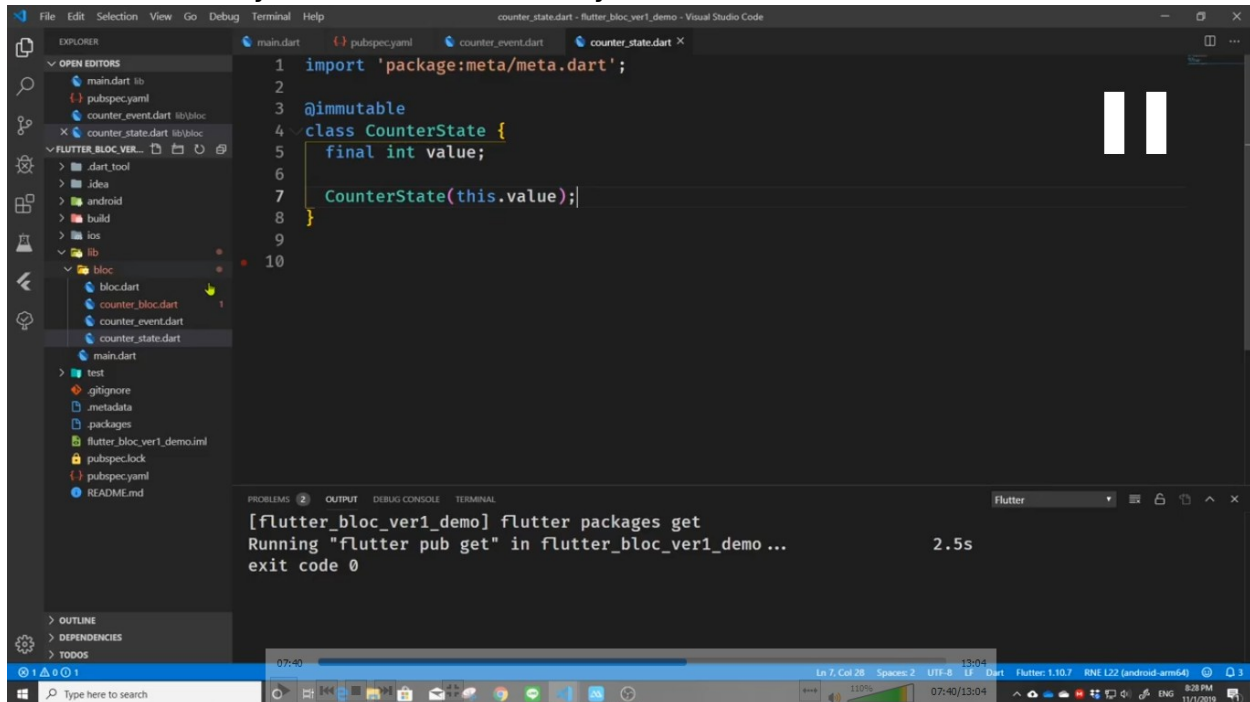
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

[flutter_bloc_ver1_demo] flutter packages get
Running "flutter pub get" in flutter_bloc_ver1_demo ... 2.5s
exit code 0

Maka counter state gk perlu banyak2 class

Cukup satu saja
counterState

jadi disini kita hilangkan abtrackt class nya lalu dab initalCounterState kita hapus
lalu didalam nya satu buah integer yaitu valuenya
buat contructornya untuk minta value nya



```
1 import 'package:meta/meta.dart';
2
3 @immutable
4 class CounterState {
5   final int value;
6
7   CounterState(this.value);
8 }
9
10
```

Flutter

[Flutter_bloc_ver1_demo] flutter packages get
Running "flutter pub get" in flutter_bloc_ver1_demo ... 2.5s
exit code 0

Disini sudah beres sekarang kita ke counter bloc

Berarti initialCounterState sudah tidak ada kita ganti CounterState lalu nilai awal(0)
Lalu di mapEventToState

Kita ubah isinya

Kita akan kembalikan kita yield ada 2 macam nilai dikembalikan

Jika event itu increment maka nilai dikembalikan adalah angka yg sudah ditambah

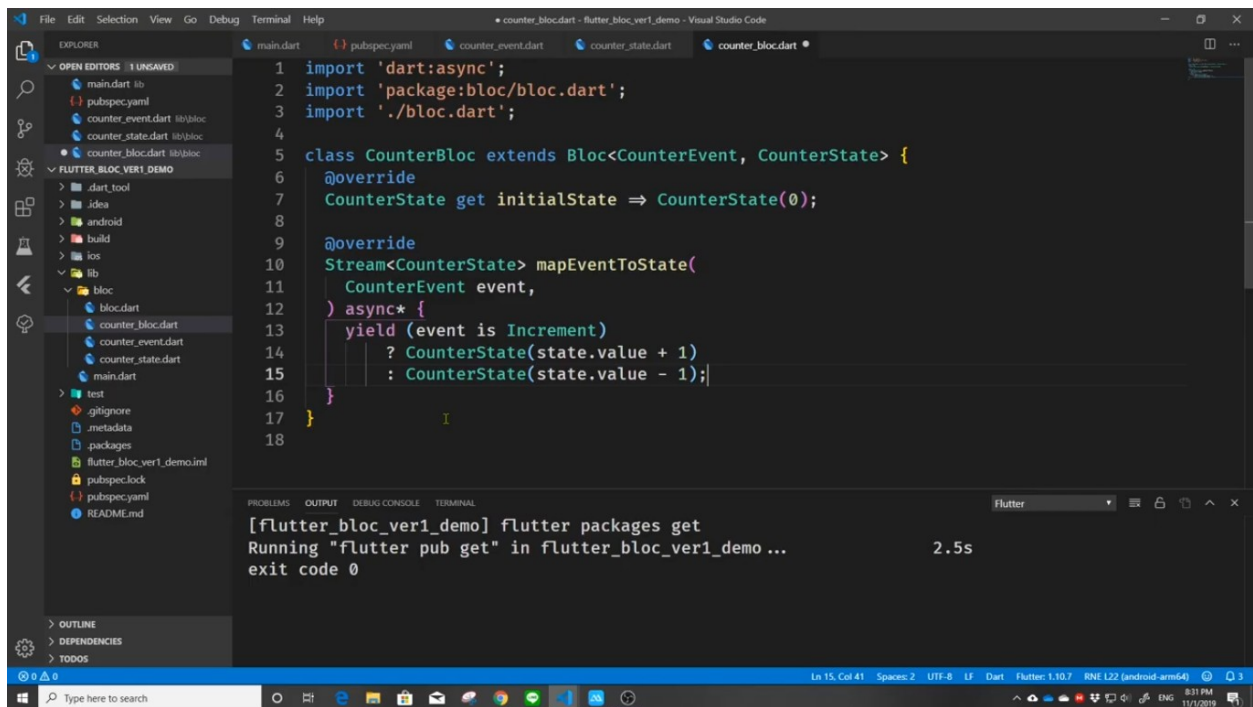
Tapi kalau decrement nilai saat ini kurangi satu

Oleh karena itu disini kita berikan () kalau event itu as Increment maka dikembalikan

? counterState baru yg nilai nya adalah nialai saat ini ditambah satu

counterStaet itu disimpan didalam state saat ini maka value menjadi state.value + 1
ini adalah nialai saat ini

: kalau bukan maka nialistate.value kurangi satu



```
1 import 'dart:async';
2 import 'package:bloc/bloc.dart';
3 import '../bloc.dart';
4
5 class CounterBloc extends Bloc<CounterEvent, CounterState> {
6   @override
7   CounterState get initialState => CounterState(0);
8
9   @override
10  Stream<CounterState> mapEventToState(
11    CounterEvent event,
12  ) async* {
13    yield (event is Increment)
14      ? CounterState(state.value + 1)
15      : CounterState(state.value - 1);
16  }
17 }
18
```

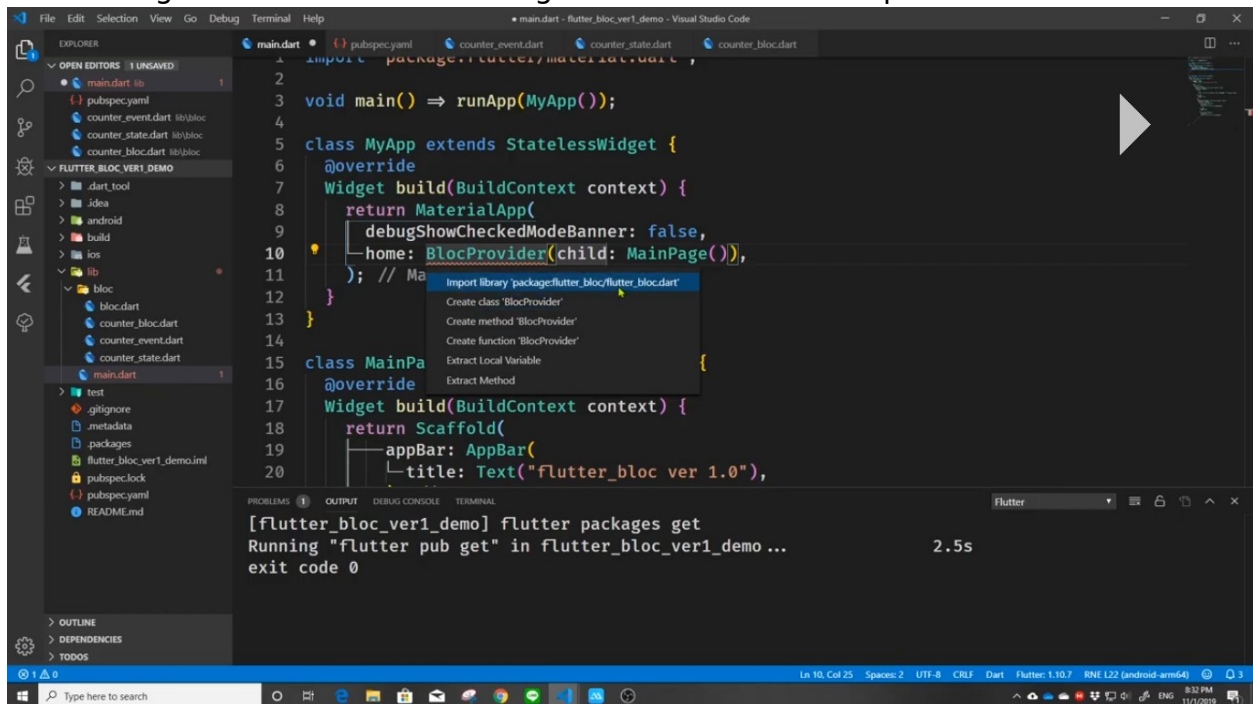
[flutter_bloc_ver1_demo] flutter packages get
Running "flutter pub get" in flutter_bloc_ver1_demo... 2.5s
exit code 0

Jadi isinya seperti ini

Kira kembali ke main.dart

Sekarang pasang counterBlocnya

Di mainPage klik kanan refactor widget BlocProvider lalu import

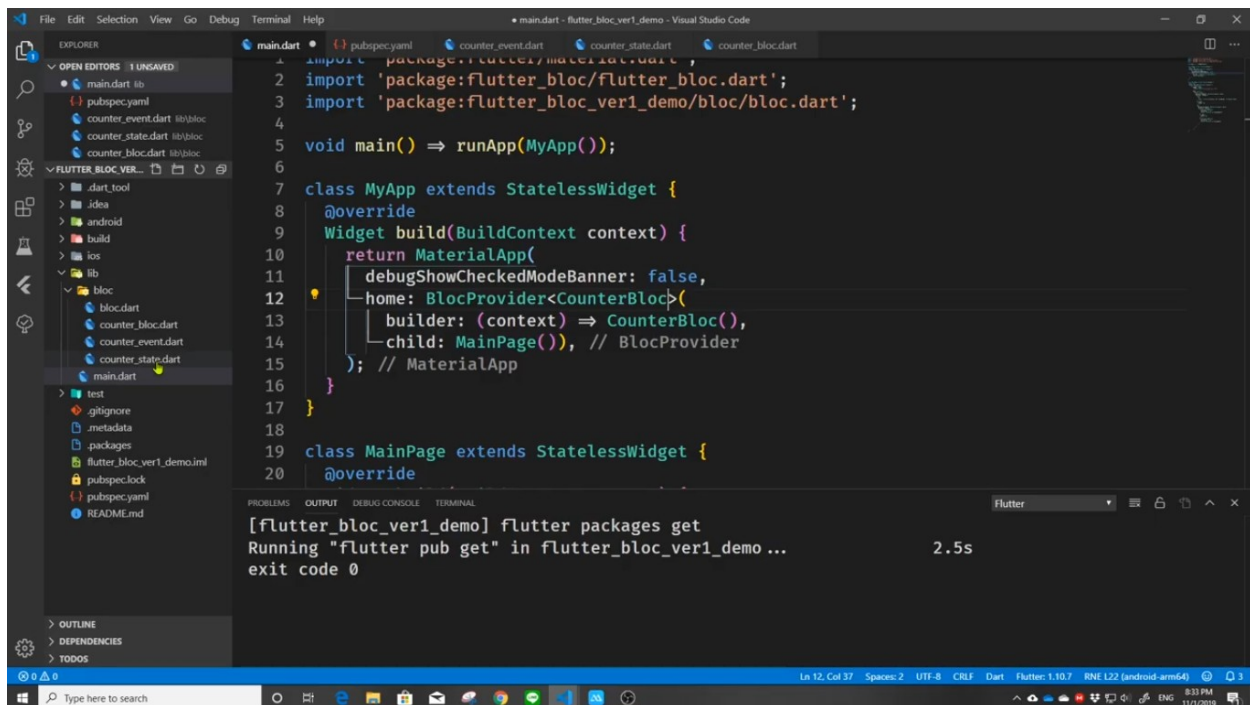


```
1 import 'package:flutter/material.dart';
2
3 void main() => runApp(MyApp());
4
5 class MyApp extends StatelessWidget {
6   @override
7   Widget build(BuildContext context) {
8     return MaterialApp(
9       debugShowCheckedModeBanner: false,
10      home: BlocProvider(child: MainPage()),
11    ); // Ma
12  }
13 }
14
15 class MainPage {
16   @override
17   Widget build(BuildContext context) {
18     return Scaffold(
19       appBar: AppBar(
20         title: Text("Flutter_bloc ver 1.0"),
21       ),
22     );
23  }
24 }
```

[flutter_bloc_ver1_demo] flutter packages get
Running "flutter pub get" in flutter_bloc_ver1_demo... 2.5s
exit code 0

blocProvider tiper nya<counterbloc>

builder: (context) dia akan kembalikan => CounterBloc kita import dari bloc.dart



```
1 import 'package:flutter/material.dart';
2 import 'package:flutter_bloc/flutter_bloc.dart';
3 import 'package:flutter_bloc_ver1_demo/bloc/bloc.dart';
4
5 void main() => runApp(MyApp());
6
7 class MyApp extends StatelessWidget {
8   @override
9   Widget build(BuildContext context) {
10     return MaterialApp(
11       debugShowCheckedModeBanner: false,
12       home: BlocProvider<CounterBloc>(
13         builder: (context) => CounterBloc(),
14         child: MainPage(), // BlocProvider
15       ); // MaterialApp
16   }
17 }
18
19 class MainPage extends StatelessWidget {
20   @override
```

[Flutter_bloc_ver1_demo] flutter packages get
Running "flutter pub get" in flutter_bloc_ver1_demo... 2.5s
exit code 0

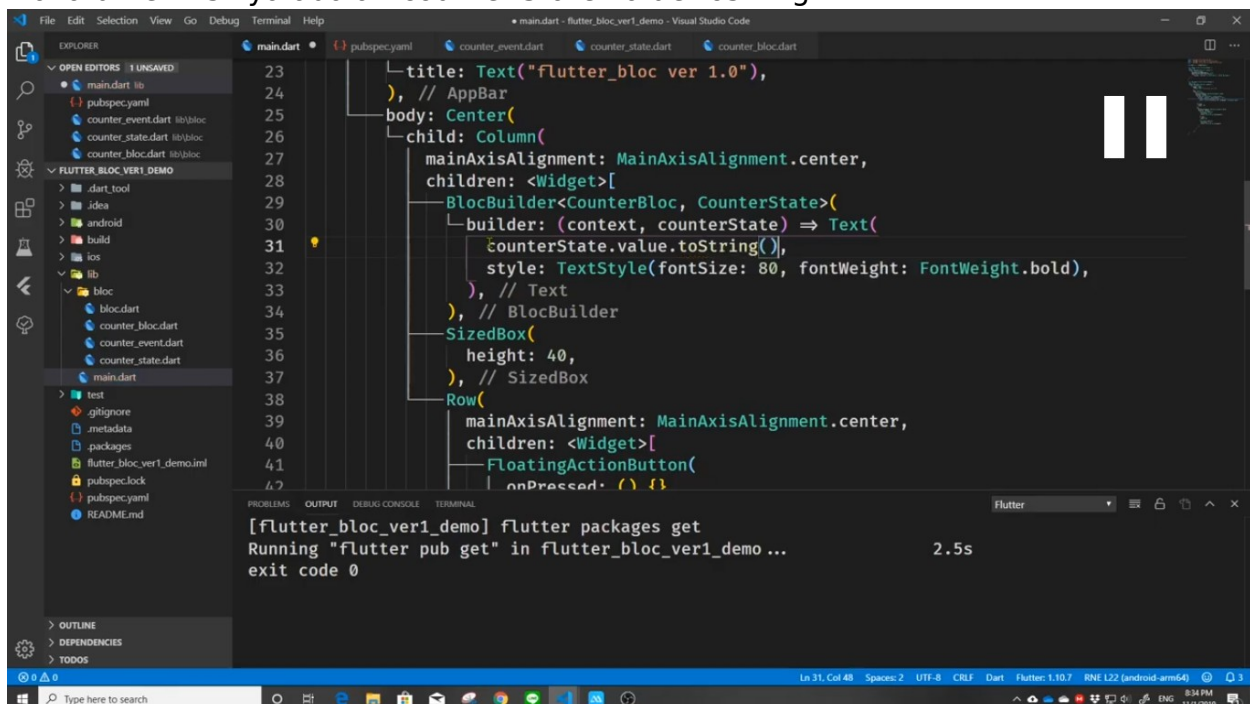
Maka otomatis file event state dan bloc sudah dimasukan

Sekarang si Text ini memkai nilai dari counterBloc

Klik kana refactor widget disini pasang blocBuilder tipenya<counterbloc, kembalikan counterState>

Child ganti jadi builder: dalam kurung context, nama countersatte yg dikemablikan counterstate

Maka di text isinya adalah counter.State.value.toString

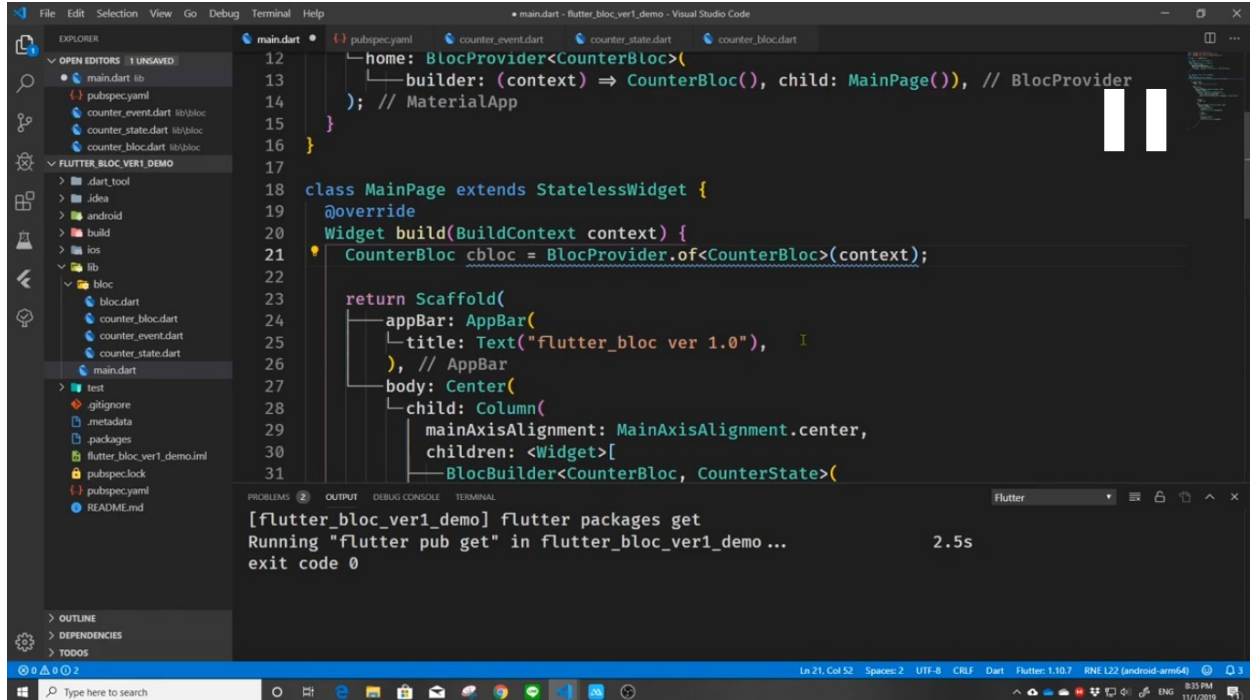


```
23 title: Text("Flutter_bloc ver 1.0"),
24 ), // AppBar
25 body: Center(
26   child: Column(
27     mainAxisAlignment: MainAxisAlignment.center,
28     children: <Widget>[
29       BlocBuilder<CounterBloc, CounterState>(
30         builder: (context, counterState) => Text(
31           counterState.value.toString(),
32           style: TextStyle(fontSize: 80, fontWeight: FontWeight.bold),
33         ), // Text
34       ), // BlocBuilder
35       SizedBox(
36         height: 40,
37       ), // SizedBox
38       Row(
39         mainAxisAlignment: MainAxisAlignment.center,
40         children: <Widget>[
41           FloatingActionButton(
42             onPressed: () {}
```

[Flutter_bloc_ver1_demo] flutter packages get
Running "flutter pub get" in flutter_bloc_ver1_demo... 2.5s
exit code 0

Lalu diatasnya

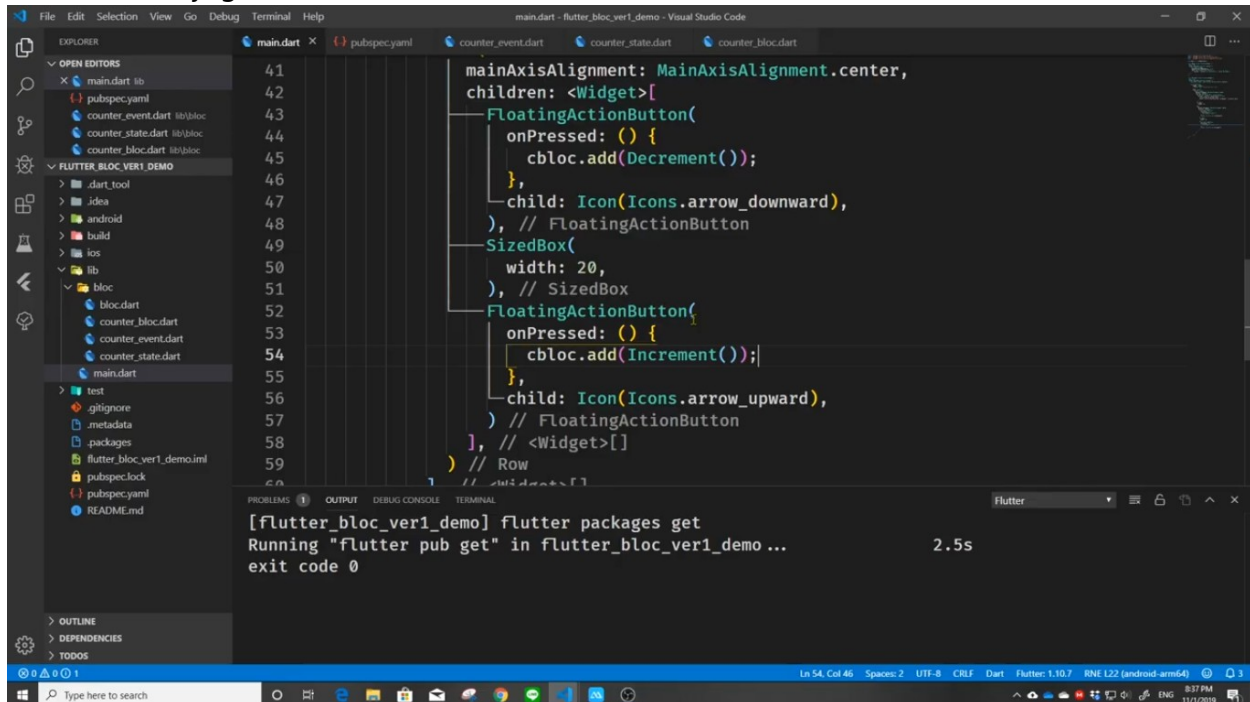
Sebelum return scaffold kita buat
CounterBloc cbloc = BlocProvider.of<CounterBloc>(context); ambil counterbloc



```
12 home: BlocProvider<CounterBloc>(  
13   builder: (context) => CounterBloc(), child: MainPage(), // BlocProvider  
14 ); // MaterialApp  
15 }  
16 }  
17  
18 class MainPage extends StatelessWidget {  
19   @override  
20   Widget build(BuildContext context) {  
21     CounterBloc cbloc = BlocProvider.of<CounterBloc>(context);  
22  
23     return Scaffold(  
24       appBar: AppBar(  
25         title: Text("Flutter_bloc ver 1.0"),  
26       ), // AppBar  
27       body: Center(  
28         child: Column(  
29           mainAxisAlignment: MainAxisAlignment.center,  
30           children: <Widget>[  
31             BlocBuilder<CounterBloc, CounterState>(  
32               builder: (context, state) {  
33                 return Text("Count: $state");  
34               },  
35             ),  
36           ],  
37         ),  
38       ),  
39     );  
40   }  
41 }  
42  
43 void main() {  
44   runApp(MyApp());  
45 }
```

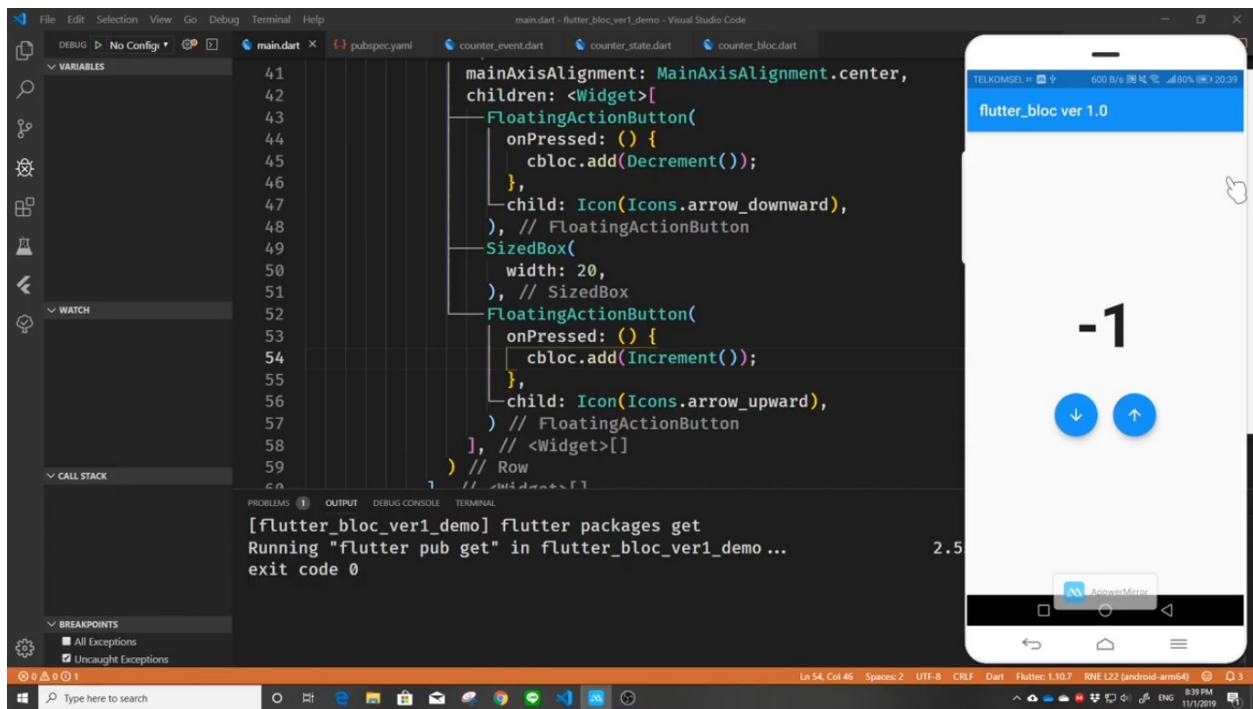
Supaya digunakan disini

Ketika tombol panah bawah ditekan kita akan dispan
Si dispan counter bloc 1 maka berubah menjadi add
Cbloc.add(Decrement);
Lalu dibawah juga



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